

-	21	"4488245" and threshold\$1 and (weight\$4 or minimum\$1 or maximum\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 17:27
-	9	"4488245" and threshold\$1 and (weight\$4 or minimum\$1 or maximum\$1)and smooth\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 17:42
-	3	"4488245" and threshold\$1 and (weight\$4 or minimum\$1 or maximum\$1)and smooth\$4 and (assign\$6 or insert\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 17:50
-	70	"4488245" and (print\$3 or ink or colorant\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:09
-	7	"4488245" and (print\$3 or ink or colorant\$1)and halfton\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:10
-	40	"4488245" )and (gray or halftone\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:10
-	40	"4488245" and (gray or halftone\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:10
-	64	"4488245" and (gray or halftone\$1 or luminance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:12
-	40	"4488245" and (gray or halftone\$1 or luminance) and black\$1 and whites	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:14
-	47	"4488245" and black\$1 and white\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:15
-	13	"4488245" and black\$1 and white\$1 and shad\$3 and light\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:16
-	0	"20020089514" and chrominance	USPAT	2004/07/12 13:53
-	0	"20020089514" and chrom\$9	USPAT	2004/07/12 13:53
-	0	"20020089514" and \$4chrom\$9	USPAT	2004/07/12 13:54
-	0	"20020089514" and \$4crom\$9	USPAT	2004/07/12 13:54
-	0	"20020089514" and momo\$8	USPAT	2004/07/12 13:54
-	0	"20020089514"	USPAT	2004/07/12 13:54
-	145036	"20020089514" a1	USPAT	2004/07/12 13:54
-	5	MATRIX ADJ DITHER\$3 SAME PRINTER AND GRAY.ADJ LEVEL\$1 AND (THRESHOLD\$1 OR VALUES OR MINIMUM\$1 OR MAXIMUMS)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:07

-	1645	pixel\$1 near5 (luminance and chrominance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:07
-	144	pixel\$1 near5 (luminance and chrominance) and( chrominance near5 (without or none or "no" or "lack of" or lacking))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:09
-	28	pixel\$1 near5 (luminance and chrominance) and( chrominance near5 (without or none or "no" or "lack of" or lacking)) and luminance near5 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:10
-	5	pixel\$1 near5 (luminance and chrominance) and( chrominance near5 (without or none or "no" or "lack of" or lacking)) and luminance near5 level\$1 and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:11
-	4	pixel\$1 near5 (luminance and chrominance) and pixel same ( chrominance near5 (without or none or "no" or "lack of" or lacking)) and luminance near5 level\$1 and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:20
-	0	pixel\$1 near5 (luminance and chrominance) and pixel near4 (without adj chrominance) and luminance near5 level\$1 and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:21
-	0	pixel\$1 near15 (luminance and chrominance) and pixel near4 (without adj chrominance) and luminance near5 level\$1 and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:21
-	0	pixel near4 (without adj chrominance) and luminance near5 level\$1 and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:21
-	0	pixel near4 (without adj chrominance) and luminance and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:22
-	0	pixel near4 (without adj chrominance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:22
-	40	(without adj chrominance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:22
-	35	(without adj chrominance) and luminance	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:22
-	2	(without adj chrominance) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:23

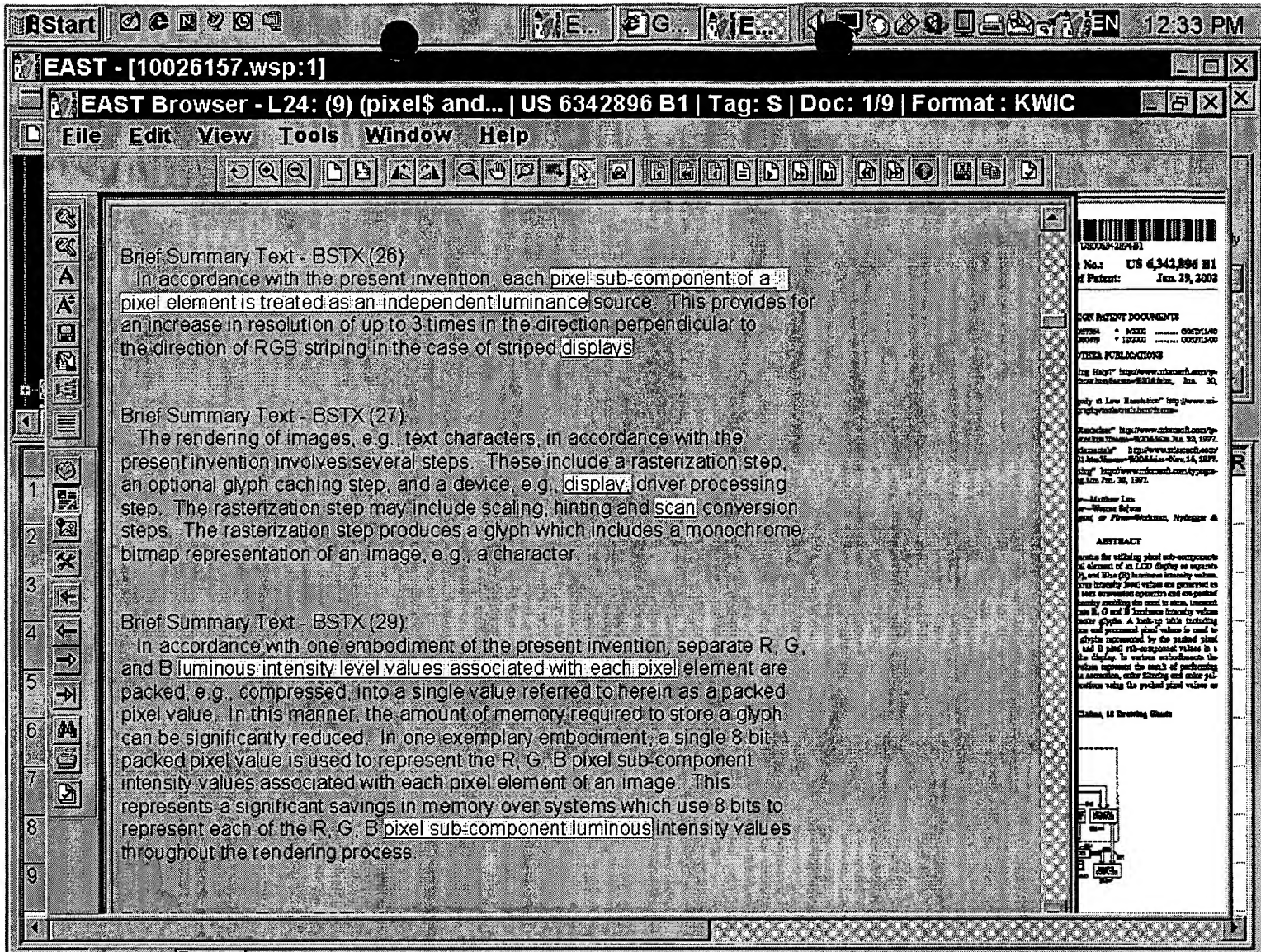
-	2	(without adj chrominance) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4) and (print\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:23
-	2	(without adj chrominance) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4) and (print\$4) and pixel\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:29
-	2	(without adj chrominance) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4 or grey or gray) and (print\$4) and pixel\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:30
-	1	(without adj chrominance) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4 or grey or gray) and (print\$4) same level\$1 and pixel\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:45
-	14	((reduc\$5 near3 chrominance) or (without adj chrominance) ) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4 or grey or gray) and (print\$4) same level\$1 and pixel\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:46
-	0	((reduc\$5 near3 chrominance) or (without adj chrominance) ) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4 or grey or gray) and (print\$4) same level\$1 and pixel\$1 and epson	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:46
-	9	((reduc\$5 near3 chrominance) or (without adj chrominance) ) and epson	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:47
-	0	((reduc\$5 near3 chrominance) or (without adj chrominance) ) and kitahara	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:47
-	0	print\$4 and ((reduc\$5 near3 chrominance) or (without adj chrominance) ) and epson	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:51
-	32	"5278678"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:07
-	29	"5278678" and print\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:07
-	8	"5278678" and print\$4 same (luminance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:07
-	2	"5278678" and print\$4 same (luminance) near5 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:08

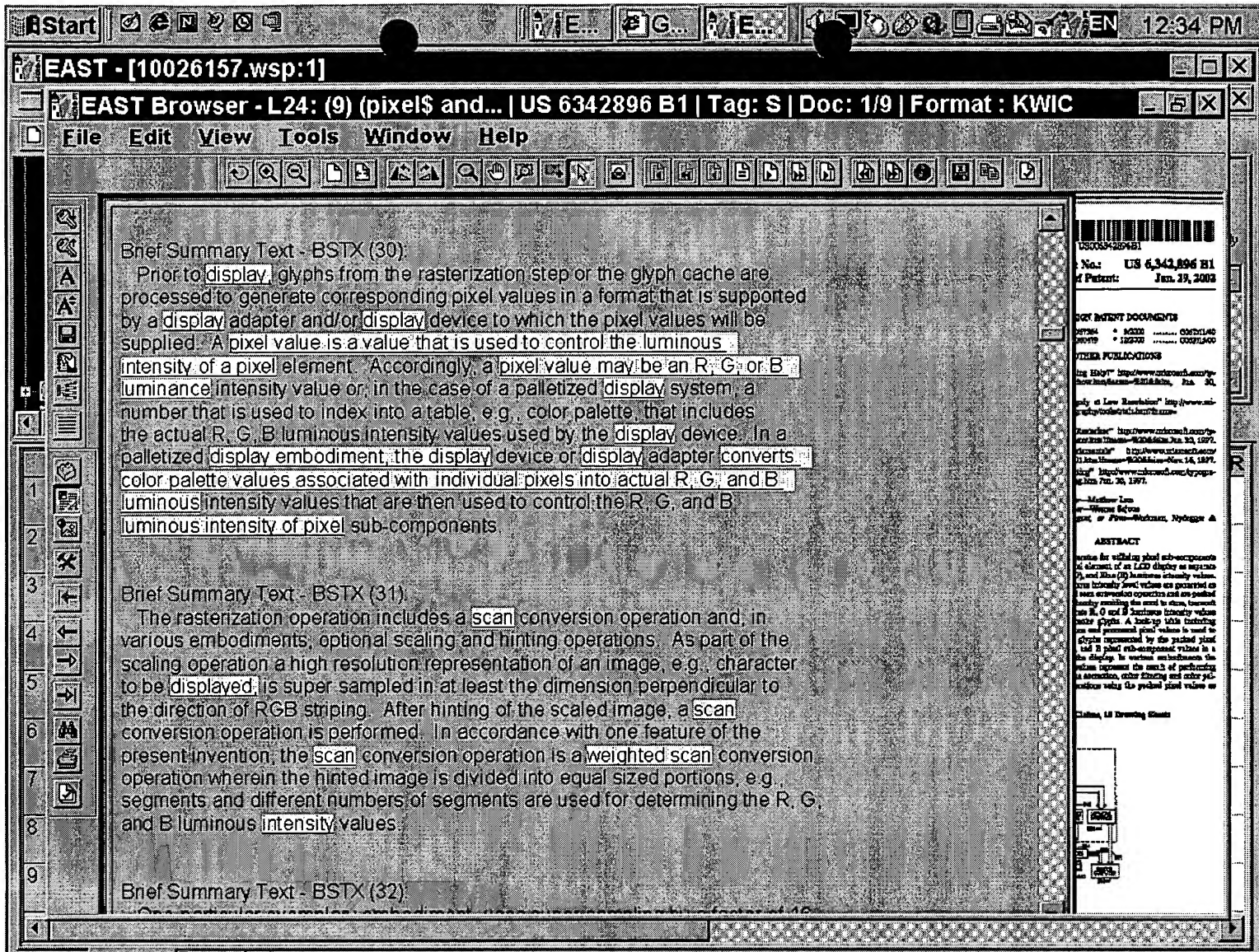
-	1	"5278678" and print\$4 same (luminance)near5 level\$1 and chrominance	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:09
-	1	"5278678" and print\$4 same (luminance)near5 level\$1 and chrominance and luminance near10 conver\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:10
-	0	"5278678" and print\$4 same (luminance)near5 level\$1 and chrominance and luminance near10 conver\$4 near10( rgb or red or green or blue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:11
-	0	"5278678" and print\$4 same (luminance)near5 level\$1 and chrominance and luminance near10 conver\$4 same( rgb or red or green or blue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:11
-	10	print\$4 same (luminance)near5 level\$1 and chrominance and luminance near10 conver\$4 same( rgb or red or green or blue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:11
-	1	print\$4 same (luminance)near5 level\$1 and chrominance near3 (without or reduc\$5 or sacrific\$4) and luminance near10 conver\$4 same( rgb or red or green or blue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:14
-	1634	assign\$6 near10 (color\$1 and (print\$4 or output))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:15
-	1089	assign\$6 near10 (color\$1 same (print\$4 or output))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:16
-	21	assign\$6 near10 (color\$1 same (print\$4 or output))same luminance	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:16
-	3	assign\$6 near10 (color\$1 same (print\$4 or output))same luminance near5 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:17
-	4	assign\$6 near10 (color\$1 same (print\$4 or output))same luminance near15 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:19
-	13	assign\$6 near15 color\$1 same (print\$4 or output) same luminance near15 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:21
-	1	assign\$6 near15 color\$1 same (print\$4 or output) same luminance near5 level\$1 and intensit\$4 and weight\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:35



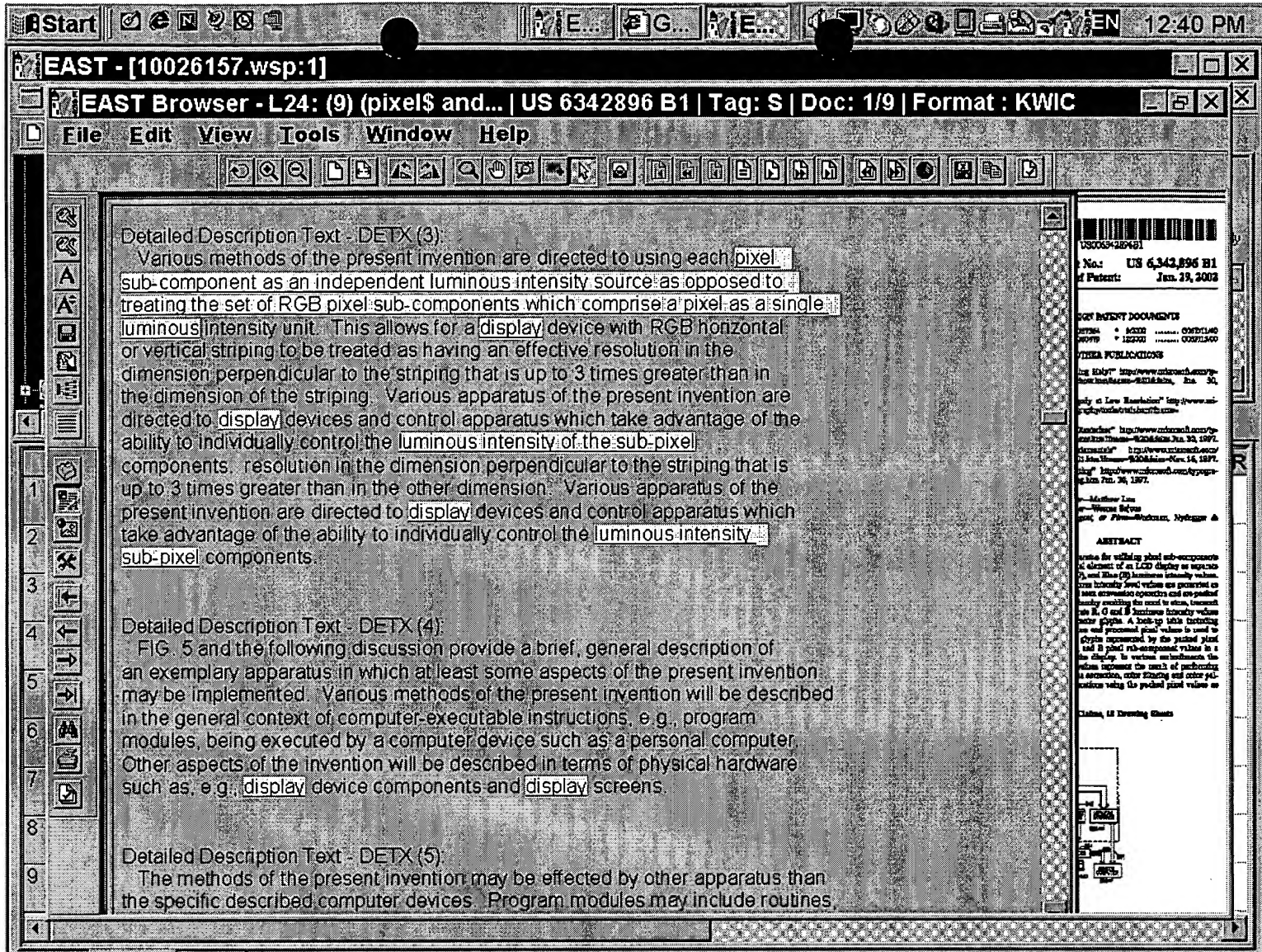
-	2	assign\$6 near15 color\$1 same (print\$4 or output) same luminance near5 level\$1 and intensit\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:38
-	8	assign\$6 near15 color\$1 same (print\$4 or output) same luminance near5 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/02 10:08
-	2	chrom\$9 and luminance and level\$1 and "5966461"	USPAT	2004/08/02 10:46
-	2	chrom\$9 and luminance and level\$1 and "5966461" and (conver\$6 or transform\$6)	USPAT	2004/08/02 10:48
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices) and level\$1 and "5966461" and (conver\$6 or transform\$6)	USPAT	2004/08/02 10:49
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1) and "5966461" and (conver\$6 or transform\$6)	USPAT	2004/08/02 10:50
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6)	USPAT	2004/08/02 10:52
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6) and pixel\$1	USPAT	2004/08/02 10:52
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6) and pixel\$1 and separat\$5	USPAT	2004/08/02 10:53
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6) and pixel\$1 and separat\$5 and (lumin\$8 or luminance)	USPAT	2004/08/02 10:57
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6 or transl\$7) and pixel\$1 and separat\$5 and (lumin\$8 or luminance)	USPAT	2004/08/02 11:24
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6 or transl\$7) and pixel\$1 and separat\$5 and (lumin\$8 or luminance) same pixel\$1	USPAT	2004/08/02 11:24
-	971	(pixel\$ and lumin\$9)near15 (conver\$4 or trans\$7) and lumin\$8 near7( level\$1 or indices or index\$2)	USPAT	2004/08/02 11:31
-	837	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near7( level\$1 or indices or index\$2)	USPAT	2004/08/02 11:31
-	778	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near5( level\$1 or indices or index\$2)	USPAT	2004/08/02 11:32
-	682	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near5( level\$1 or indices or index\$2) and (print\$4 or display\$4)	USPAT	2004/08/02 11:32
-	568	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near5( level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera)	USPAT	2004/08/02 11:33
-	571	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near5( level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4)	USPAT	2004/08/02 11:34
-	502	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near3( level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4)	USPAT	2004/08/02 11:34
-	435	(pixel\$ and lumin\$9)near7 (conver\$4 or trans\$7) and lumin\$8 near3( level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4)	USPAT	2004/08/02 11:34

-	330	(pixel\$ and lumin\$9)near7 (conver\$4 or trans\$7) and lumin\$8 near3( level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4) and lumin\$8 near7 pixel\$1	USPAT	2004/08/02 11:35
-	3	(pixel\$ and lumin\$9)near7 (conver\$4 or trans\$7) and lumin\$8 near3( level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4) and lumin\$8 near7 pixel\$1 and (sum\$4 or add\$3 ) near7 weight\$4 same intensit\$5	USPAT	2004/08/02 11:36
-	1	(pixel\$ and lumin\$9)near7 (conver\$4 or trans\$7) and lumin\$8 near3( level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4) and lumin\$8 near7 pixel\$1 and weight\$4 same intensit\$5 and print\$4 near4 color\$1	USPAT	2004/08/02 12:02
-	9	(pixel\$ and lumin\$9)near7 (conver\$4 or trans\$7) and lumin\$8 near3( level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4) and lumin\$8 near7 pixel\$1 and weight\$4 same intensit\$5	USPAT	2004/08/02 12:04











#### Detailed Description Text - DETX (7)

A number of program modules may be stored on the hard disk 527, magnetic disk 529, (magneto) optical disk 531, ROM 524 or RAM 525, such as an operating system 535, one or more application programs 536, other program modules 537, display driver 830, and/or program data 538 for example. The RAM 525 can also be used for storing data used in rendering images for display as will be discussed below. A user may enter commands and information into the personal computer 520 through input devices, such as a keyboard 540 and pointing device 542 for example. Other input devices (not shown) such as a microphone, joystick, game pad, satellite dish, scanner or the like may also be included. These and other input devices are often connected to the processing unit 521 through a serial port interface 546 coupled to the system bus. However, input devices may be connected by other interfaces, such as a parallel port, a game port or a universal serial bus (USB). A monitor 547 or other type of display device may also be connected to the system bus 523 via an interface, such as a display adapter 548, for example. In addition to the monitor 547, the personal computer 520 may include other peripheral output devices (not shown), such as speakers and printers for example.

#### Detailed Description Text - DETX (10)

FIG. 7 illustrates an image rendering apparatus 800 implemented in accordance with one embodiment of the present invention. The apparatus 800 includes various routines, e.g., included in the memory of the computer system of FIG. 5, used to render text images on the computer system's display 547 in accordance with the present invention.

#### Detailed Description Text - DETX (11)



US 6,342,896 B1  
No.: US 6,342,896 B1  
Pub. No.: Jan. 29, 2002

#### OTHER PUBLICATIONS

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1

US 6,342,896 B1  
US 6,342,896 B1  
US 6,342,896 B1



